ABSTRACT

A speaker array is provided which can increase the orientation when reproducing front channels of a surround sound, increase the density effect, improve the narrow directivity when reproducing a stereo sound and increase the selectivity in selecting reproduction methods which match setting environments.

When reproducing a stereo sound by a speaker array for reproducing a surround sound by converting a sound into a beam of sound, the speaker array is divided into a sound reproducing region for an L system and a sound reproducing region for an R system at a central portion thereof. Then, each of the reproducing regions so divided is further divided in to bands. In addition, since a high frequency reproducing region has a high directivity and a strong orientation when the sound is attempted to be reproduced simultaneously by the plurality of speakers as is described above, a reproducing region is limited to part of the reproducing regions. Additionally, when stereo reproducing a front system of a surround sound source, the center orientation is improved by implementing different processings for the L, R systems and C. By adopting this configuration, it is possible to reproduce a sound with a natural stereo effect with no high frequency sound converted into a beam of sound.